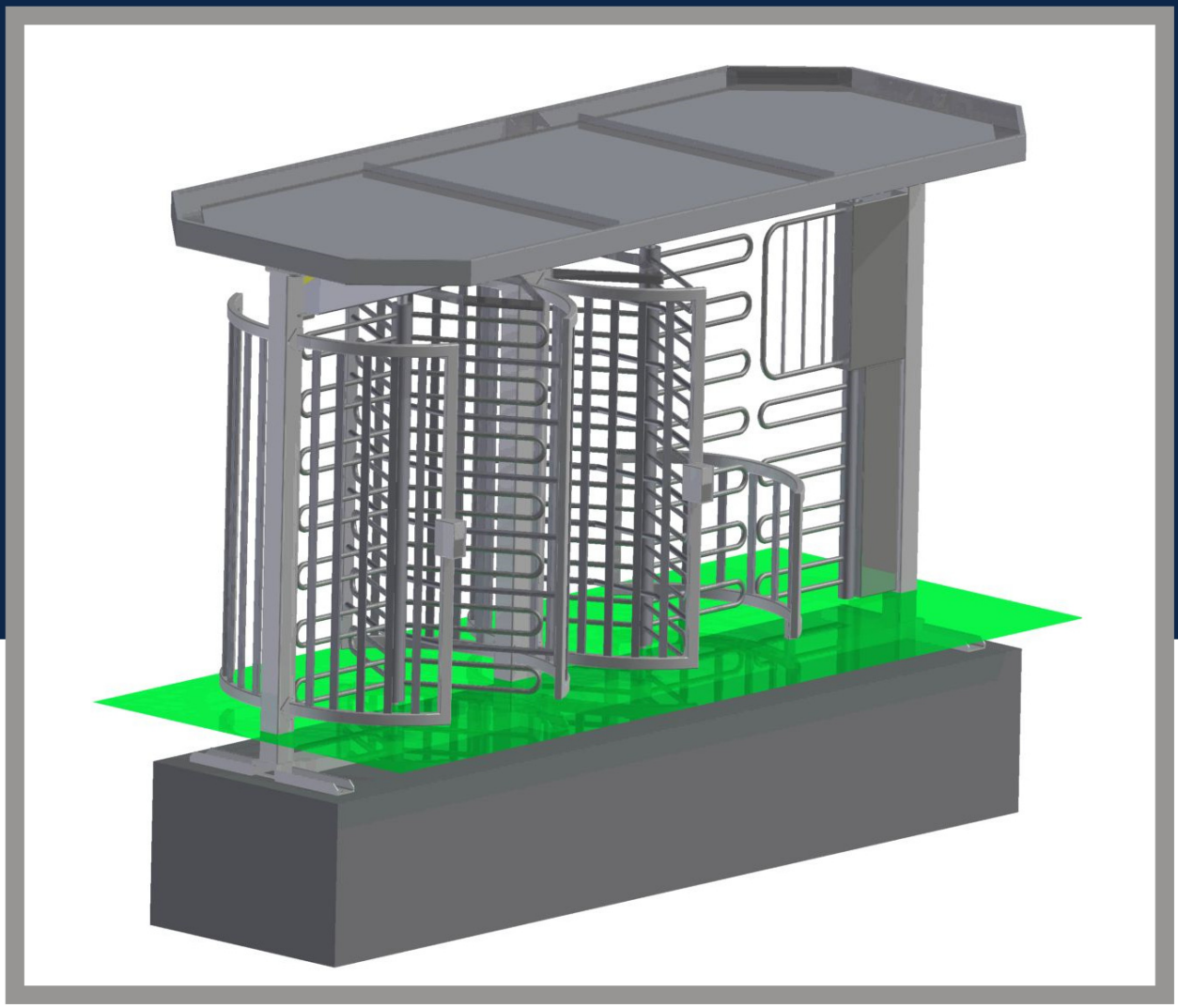
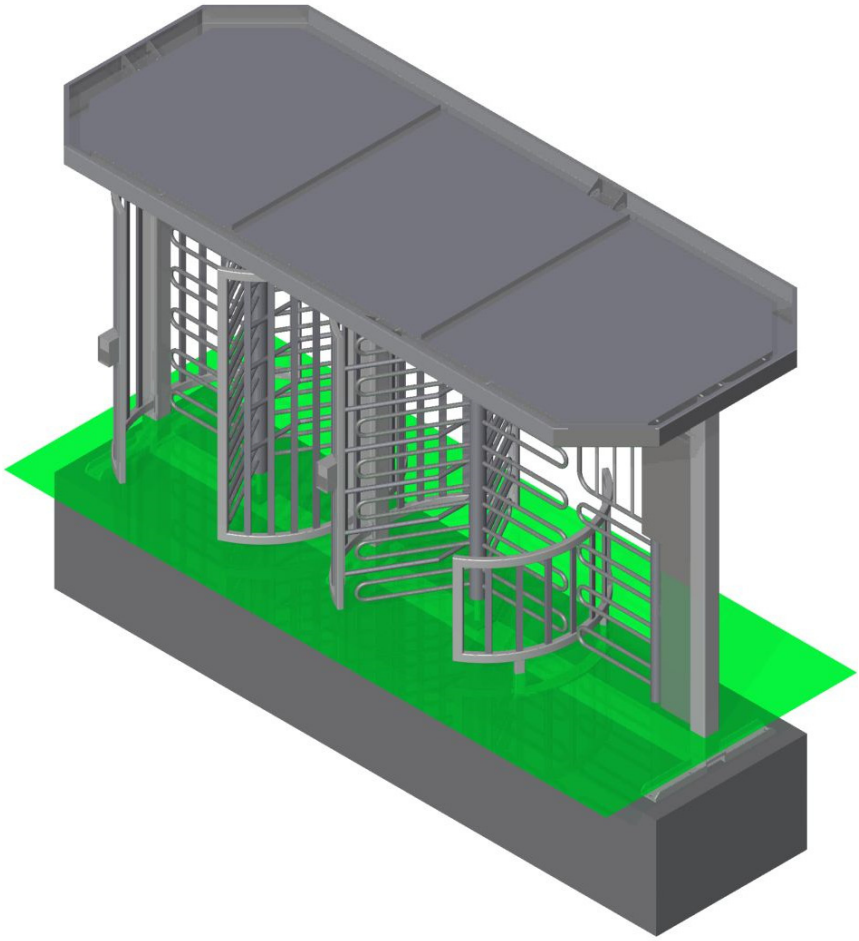
OBJEKTSICHERUNGSANLAGEN • Die Manufaktur für Objektschutz nach Maß

TORWERK

Double Turnstile Rondo with Lock Gate (RS)



Double Turnstile Rondo RS



Double turnstiles of the RONDO line in combination with a lock gate for bicycle or wheelchair users are the modern convenient solution for access control outdoors when many people have to enter or leave an area on separate paths within a short time. Due to their different drive variants RONDO–turnstiles can be precisely adjusted to your requirements. The **double turnstile RONDO 1** has an electromechanical locking unit, the rotation is generated by the user himself, a popular variant in leisure parks and stadiums. The electromotive **double turnstile RONDO 2** is actuated by an energy-efficient and maintenance-free MHTM™ drive unit, the first choice for the representative securing of outdoor areas and company premises. Both drive versions can be controlled by all common access control systems as well as optionally operated in both directions. The **Rondo swing door** for separating cyclists, wheelchair users and similar user groups can basically be operated in two directions. In multi-track installations with high throughput, the entry and exit lines can also be configured for facility operation. The swing gate is locked in the normal state. The swing gate opens only after authorization by means of an external command device such as a card reader. The RONDO turnstiles can also be individually adjusted to your requirements with different material designs, locking variants, additional attachments and extensions for bicycles, wheelchairs and material transport devices.

Double Turnstile Rondo RS

Attributes

- handicapped accessible two-way separation
- maximum comfort due to modern transport of bicycles to the workplace
- reliable securing of outdoor areas and open-air grounds with a high visitor frequency
- electromechanical or motorised version
- sensitive impact detection for the highest possible safety of people
- various options, such as the extension for a barrier-free access
- designed for 10 million person passages

Application for the separation of persons, especially in areas which are in need of control and protection:

- authority facilities
- industrial plants and power plants (if monitored)
- military facilities (if monitored)
- supply facilities
- airports (operating areas)
- sports and leisure facilities

Versions / Names:

DKR-Rondo 1-Duo-RS: electromechanical turnstile drive, electromotive swing gate drive, controllable on both sides or alternately

DKR-Rondo 2-Duo-RS: electromotive turnstile and swing gate drive, controllable on both sides or alternately

Specifications **Double System with Swing Gate**

Passage width turnstile	2x 720 mm
Passage width swing gate	715 mm
Passage height	2,050 mm
Ground clearance	90 mm
Base area	3,800 x 1,450 mm
Overall height	2,450 mm
Partition	2x 120°
Opening and closing time	3 seconds

Dimensional changes are possible under consideration of the local conditions.

The **turnstile** is manufactured as an assembly unit consisting of the frame bracket, the guiding elements, the locking brackets, the turnstile spindle and the locking device.

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The **frame bracket** consists of two lateral uprights and the upper support beam to accommodate the drive unit and a roof.

The **person guiding elements** each consist of a closed frame bent in a circle with a bar filling (bar spacing approx. 120 mm) and are arranged to the left and right of the turnstile on the frame bracket, whereby a person guiding element is provided with locking bars made of round tube.

The **turnstile spindles** consist of a turnstile axle made of round tube ∅ 100 mm (V4A) and a sufficiently dimensioned neck and foot bearing. The locking arms made of V4A round tube are bent into a hairpin shape and are attached to the turnstile axle in 3 rows below 120°.

The **swing door** consists of a rotary axle made of round tube, ∅ 100 mm (V4A) and a sufficiently dimensioned neck and foot bearing. The locking arms made of V4A round tube, bent into a hairpin shape, are mounted in a single row on the rotary axle.

Locking part swing door, consisting of a bent tubular frame made of V4A with tube filling if only bicycles and wheelchair users are allowed to pass through the lock gate

Easily accessible components: All components required for operation are accommodated inside the support beam. This simplifies assembly, commissioning and maintenance considerably.

Control: Microprocessor control unit
Voltage: 110 – 240 V AC, 50/60 Hz
Power consumption: approx. 50 W (without accessories)
Duty cycle: 100 %
Class of protection: IP 43

The control functions are:
- turnstile respectively swing gate locked in both directions
- turnstile continuously open in both directions
- single opening by control devices, depending on the control side

Behaviour in the event of a power failure: The exit direction is automatically enabled, whereby the entrance is blocked. Other combinations are possible on request.

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Foundation plate as standard:

- 220 mm upper edge area with spacious cable entry
- pairwise arrangement of dowel holes and levelling screws for an optimal perpendicular and flush assembly

TORWERK – long-lasting corrosion protection in 4 steps:

The coating thickness is 260 µm, all requirements on corrosion protection stresses according to DIN EN 12944-2 of the category C4 (long protective effect) are met.

First-class surface haptics through:

- hermetically welded construction
- a surface free of zinc cavities
- no protrusion of flat ground weld seams (mitre corners) after zinc coating
- no warping caused by zinc blowholes in the surface

Environmentally friendly procedure:

- no use of solvents
- recycling of the overspray

Options:

Colour design / labelling:

Roof, supporting beams (drive), supporting columns and side elements can be designed in various RAL/DB colours.

The support beam can also be labelled with a door designation.

Attachments:

- Terminal “S” 220 x 150 mm with panel cut-out 135 x 65 mm
- Terminal “L” 580 x 220 mm with panel cut-out 495 x 135 mm
- Terminal “XL” 580 x 310 mm with panel cut-out 495 x 225 mm

for control and communication elements in ergonomic design and spacious assembly area, attaching possible on the in- and outside or as terminal arrangement one above the other.

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Signaller:

- LED-pictogram red cross/green arrow
- LED-button lights red and green
- turnstile – specification on supporting beam

Controls:

- release push-button illuminated, key switch, key switch On/Off
- code card reader and other communication systems possible on request

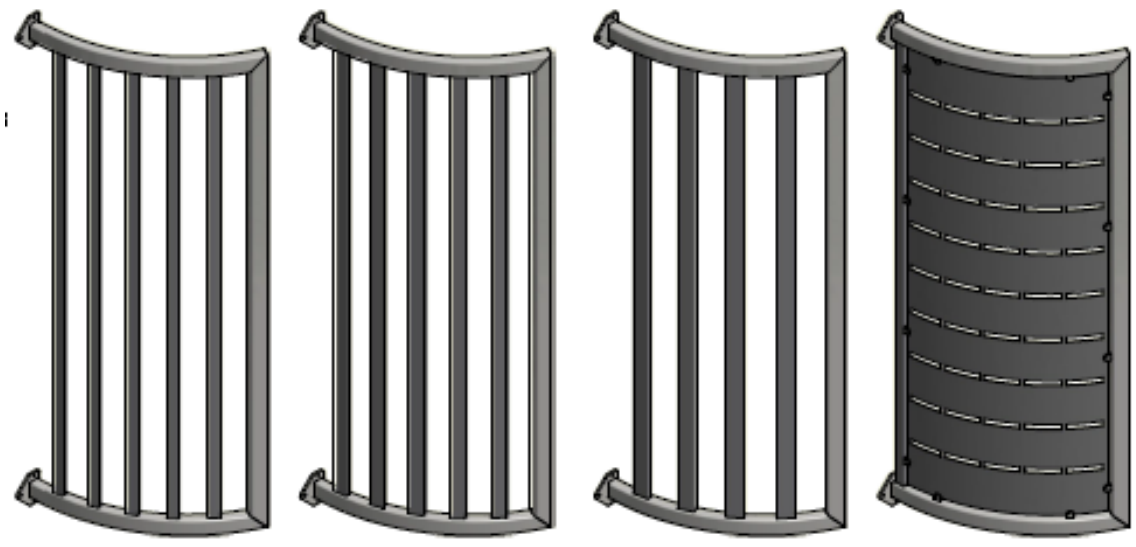
Roofings: When selecting the roof design, a distinction is made between the following versions:

- **octagonal design roof made of a light supporting frame, sheet metal filling and circumferential fascia**
  - 4,745 x 1,950 mm, height 80 mm
  - drainage at the roof edges laterally via downpipe (nominal connection diameter DN 50)
  - optionally with 2 flat LED lighting panels on the profile underneath the roof in combination with a twilight switch

- **rectangular roof made of a light supporting frame, sheet metal filling and circumferential fascia**
  - 4,745 x .1.950 mm, height 80 mm
  - drainage at the roof edges laterally via downpipe (nominal connection diameter DN 50)
  - optionally with 2 flat LED lighting panels on the profile underneath the roof in combination with a twilight switch

Design of the person guiding elements:

- instead of bar filling, optionally closed sheet filling or perforated sheet filling in powder-coated version in brushed stainless steel



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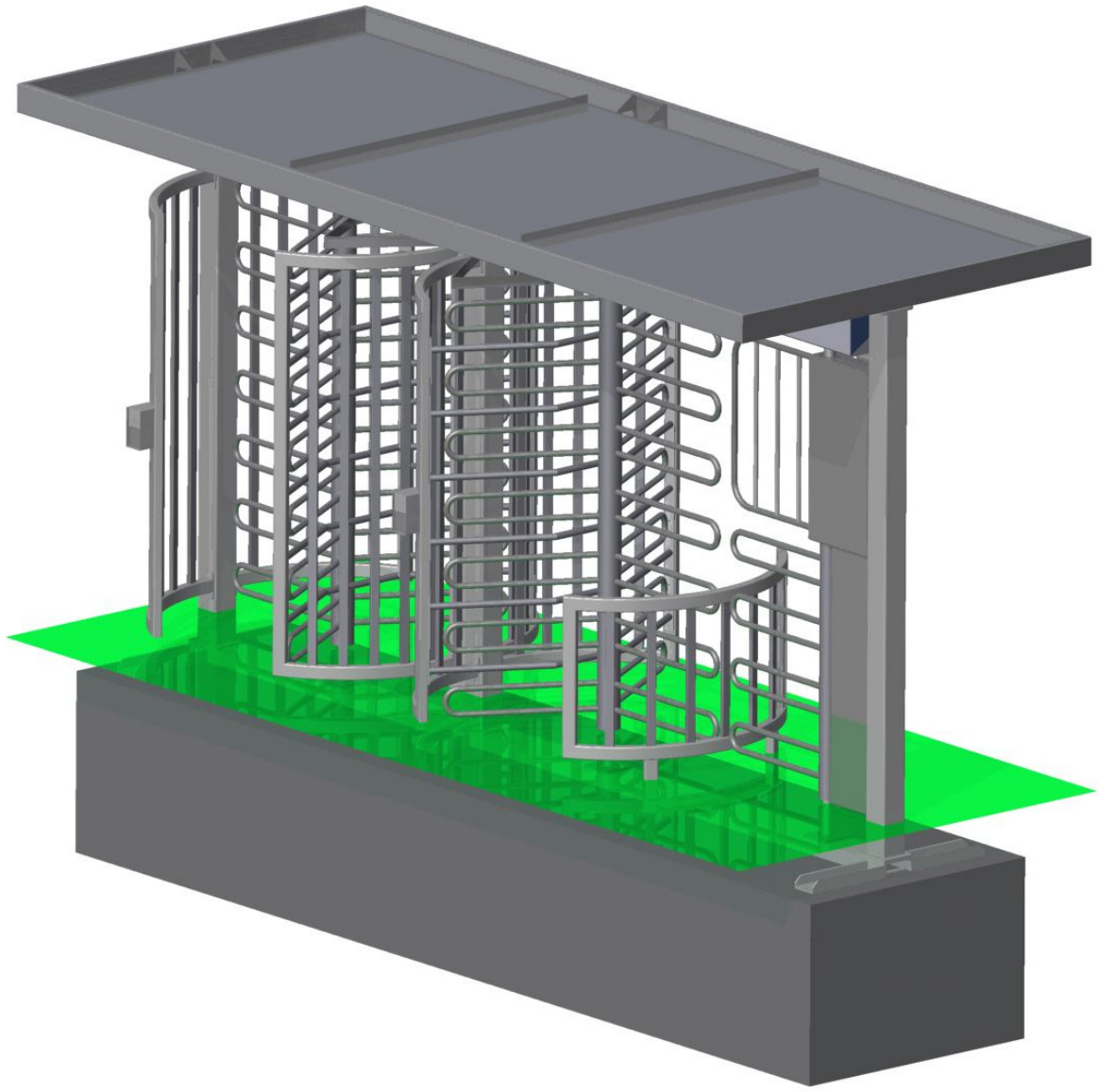
Torwerk - assembly service:

Each configured turnstile is supplied completely pre-assembled at the factory and internally wired and connected ready for operation. The installers/assemblers only have to unload the turnstile onto the foundation prefabricated by the customer, align it, level it using the adjusting screws and anchor it with the dowels supplied. An electrician connects the turnstile to the mains and the turnstile is ready for operation. Time-consuming studying of assembly instructions, sorting of assemblies and connecting elements is no longer necessary.



Construction and design: Siegmund Huth / Andreas Panek / Electrotechnical equipment: Matthias Martius

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